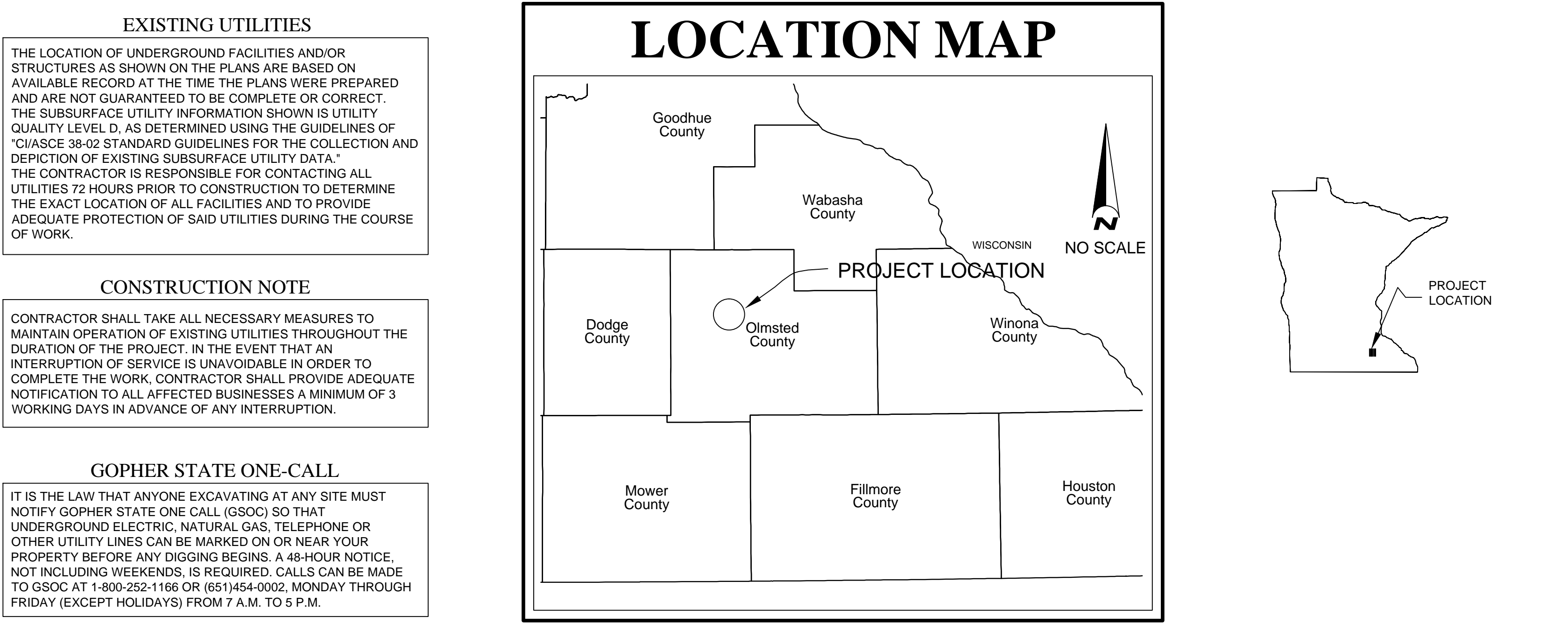
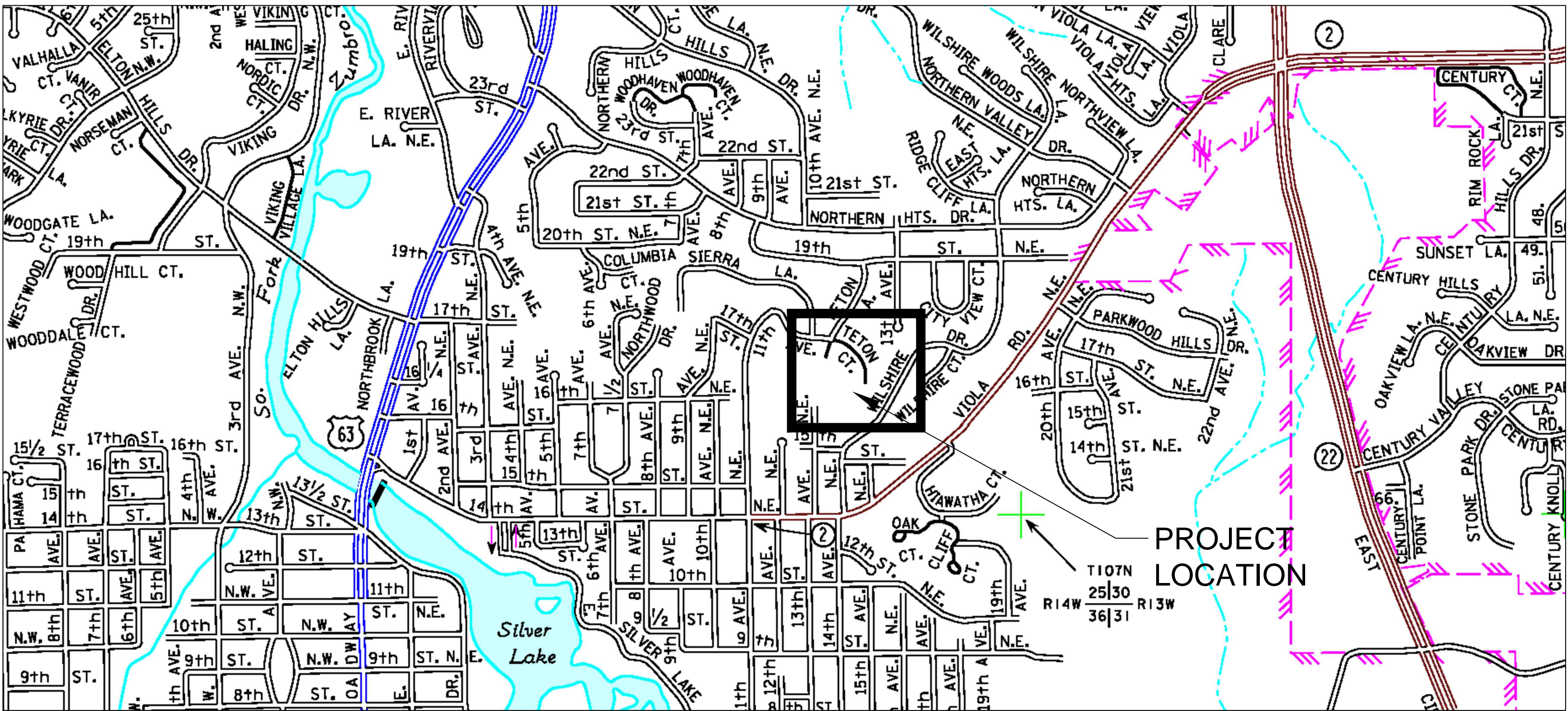


CITY OF ROCHESTER  
TETON COURT POND REHAB  
ROCHESTER, OLMSTED COUNTY, MINNESOTA

FEATURE	LEGEND	
	EXISTING	PROPOSED
SILT FENCE		
CONSTRUCTION FENCE		
DELINEATED WETLAND	---	---
WATERLINE/ShORELINE	---	---
OVERHEAD ELECTRIC LINES	---E-O---	
BURIED ELECTRIC LINES	---E-U---	
FIBER OPTIC LINES	---FO---	
GAS LINES	---G---	
PIPELINE	---PL---	
OVERHEAD TELEPHONE	---T-O---	
BURIED TELEPHONE	---T-U---	
TELEPHONE MANHOLE	---T-U---(M)	
TELEPHONE CABLE PEDESTAL	---T-U---(P)	
OVERHEAD CABLE TV	---TV-O---	
BURIED CABLE TV	---TV-U---	
TV CABLE PEDESTAL	---TV-U---(P)	
BARBED WIRE FENCE	---X-X-X-X---	---X-X-X-X---
CHAIN LINK FENCE	---O-O-O-O---	---O-O-O-O---
STOCKADE/WOOD FENCE	---S-S-S-S---	---S-S-S-S---
GUARD RAIL	---G-R---	---G-R---
CENTER LINE ROADWAY	---C-L-R---	---C-L-R---
CENTER LINE RAILROAD	---C-L-R---	---C-L-R---
SANITARY SEWER LINE	---S-S---	---S-S---
SANITARY SEWER FORCEMAIN	---FM---	---FM---
SANITARY SEWER MANHOLE	---S-S---(M)	---S-S---(M)
STORM SEWER LINE	---S-S---	---S-S---
STORM SEWER CULVERT	---S-S---	---S-S---
STORM SEWER FORCEMAIN	---FM---	---FM---
STORM SEWER MANHOLE	---S-S---(M)	---S-S---(M)
WATERMAIN	---W-M---	---W-M---
WATERMAIN MANHOLE	---W-M---(M)	---W-M---(M)
HYDRANT	---H---	---H---
WATER VALVE	---W-V---	---W-V---



SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	SCHEDULE OF ESTIMATED QUANTITIES
3	DETAILS & TYPICAL SECTIONS
4	TRM DETAILS
5	OVERFLOW DETAILS
6	TEMPORARY EROSION CONTROL
7	REMOVALS
8	GRADING & STRUCTURE PLAN
9	PERMANENT EROSION CONTROL
THIS PLAN SET CONTAINS 9 SHEETS	

**GOVERNING SPECIFICATIONS**  
THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN  
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING FIELD MANUAL FOR TEMPORARY CONTROL ZONE LAYOUTS.

CITY APPROVAL	
RICHARD FREESE PUBLIC WORKS DIRECTOR	DATE
MATT CRAWFORD PROJECT MANAGER	DATE

<b>CLIENT</b> CITY OF ROCHESTER 201 4TH STREET S. E. ROCHESTER, MN
<b>ENGINEER</b> EMMONS & OLIVIER RESOURCES, INC. 651 HALE AVENUE NORTH OAKDALE, MINNESOTA 55128-7534 TELEPHONE: (651) 770-8448 FAX: (651) 770-2552 eorinc.com

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

GREGORY D. BRASKE  
DATE: 10-30-2013  
LICENSE # 43873

SUBMISSION DATE: 10-30-2013	<b>EOR</b> Emmons & Olivier Resources, Inc. 651 Hale Avenue North Oakdale, MN 55128 Tele: 651.770.8448 www.eorinc.com
DESIGN BY GG	DRAWN BY JRH
EOR PROJECT NO. 00214-0005	

CITY OF ROCHESTER 201 4TH STREET S. E. ROCHESTER, MN	TETON COURT POND REHAB ROCHESTER, OLMSTED COUNTY, MINNESOTA	TITLE SHEET 01 OF 09 SHEETS
STATE PROJECT NO. ---	CITY PROJECT NO. 2010-027 (J6606)	



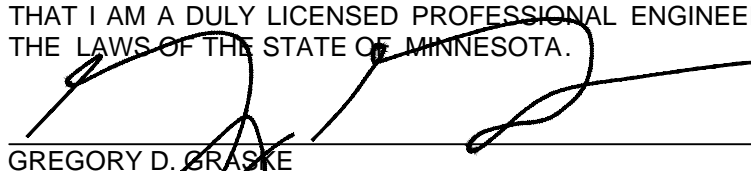
STATEMENT OF ESTIMATED QUANTITIES

Item No.	Description	Units	Quantity
2021.501/90010	MOBILIZATION	EACH	1
2563.601/00010	TRAFFIC CONTROL	LS	1
2573.530/00010	INLET PROTECTION	EACH	7
2573.502/00011	SILT FENCE, HEAVY DUTY, MAINTAINED	LF	400
2573.602/00020	ROCK CONSTRUCTION ENTRANCE	EACH	1
2573.540/00020	FILTER LOG-TYPE WOOD FIBER BIOROLL	LF	210
2575.502/00150	SEED MIXTURE – 150 TEMPORARY	LBS	100
2575.523/00012	EROSION CONTROL BLANKET- CATEGORY 1	SY	120
2575.561/00060	HYDRAULIC SOIL STABILIZER – TYPE 6	LBS	1000
2104.509/00014	REMOVE DRAINAGE STRUCTURE	EACH	2
2101.511/00010	CLEARING & GRUBBING	LS	1
2105.503/00010	COMMON EXCAVATION (P)	CY	200
2105.609/00130	EXCAVATION SPECIAL 1	TON	510
2105.609/00122	HAUL & DISPOSE OF CONTAMINATED SOIL (CAT 3)	TON	168
2105.609/00122	HAUL & DISPOSE OF CONTAMINATED SOIL (CAT 2)	TON	342
2506.602/00081	CONSTRUCT DRAINAGE STRUCTURE SPECIAL 1	EACH	1
2506.602/00082	CONSTRUCT DRAINAGE STRUCTURE SPECIAL 2	EACH	1
2575.525/00040	EROSION STABILIZATION MAT, CLASS 4	SY	1135
2575.502/01510	SEED MIXTURE SPECIAL 1 (STATE MIX 33-262)	LBS	42
2575.561/00080	HYDRAULIC SOIL STABILIZER – TYPE 8	LBS	2000
2575.623/00010	HYDROSEEDING – PERMANENT EROSION CONTROL	MGAL	3.2
2575.623/00010	HYDROSEEDING – TEMPORARY EROSION CONTROL	MGAL	2.1
2573.540/00030	FILTER LOG- TYPE COMPOST LOG	LF	210
2571.507/00050	PERRENIAL	PLT	1410
2575.555/00010	EXTENDED VEGETATION MANAGEMENT	LS	3

Plot Date: 11/05/2013  
Drawing Name: X:\Clients\_Municipal\00214\_Rochester\0005\_Teton\_Court\_Pond\_Rehab\09\_GIMS\_ProjectName\dwg\_SEQ.dwg  
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GREGORY D. BRASKE  
DATE: 10-30-2016

LICENSE # 43873

SUBMISSION DATE:  
10-30-2013

DESIGN BY GG      DRAWN BY JRH

EOR PROJECT NO.  
00214-0005



**Emmons & Olivier Resources, Inc.**  
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www.eorinc.com

CITY OF ROCHESTER  
201 4TH STREET S. E.  
ROCHESTER, MN

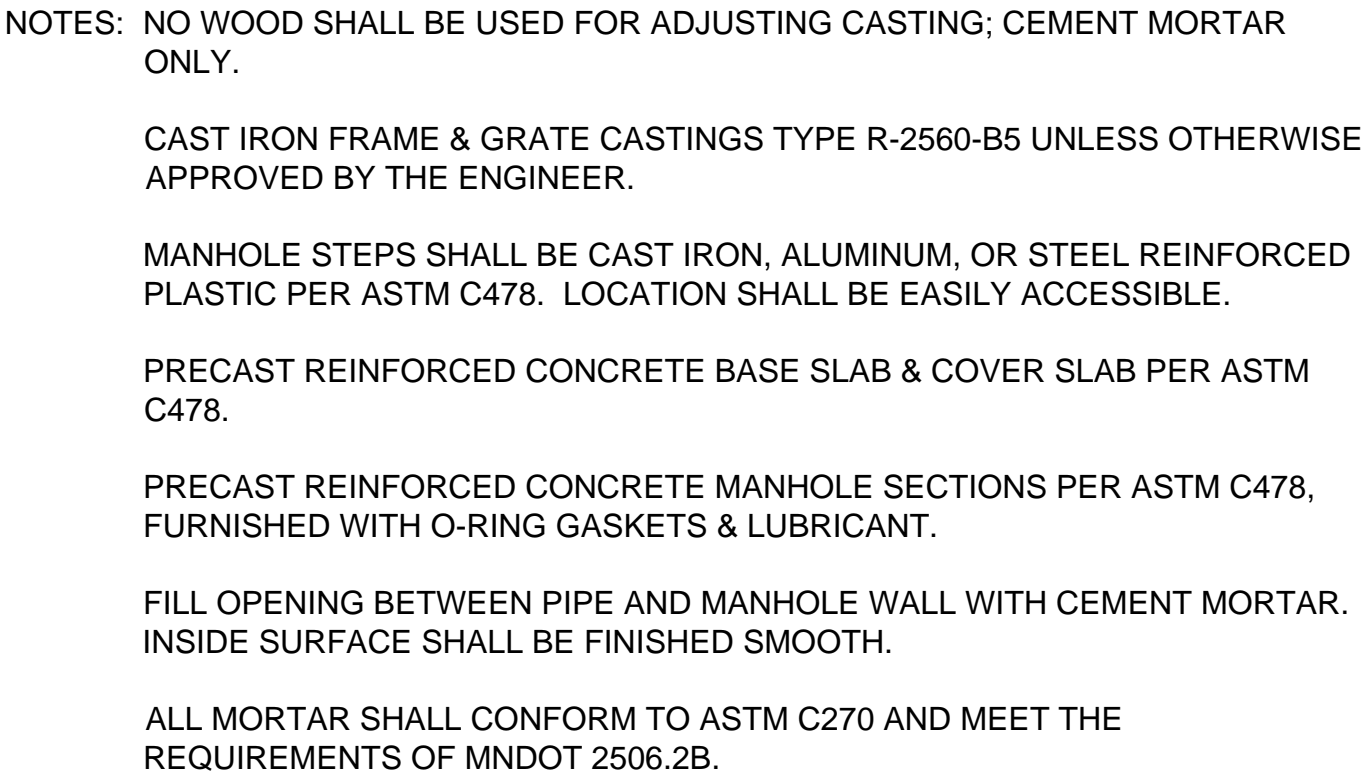
TETON COURT POND REHAB.  
ROCHESTER, OLMSTEAD COUNTY,  
MINNESOTA

STATE PROJECT NO. ---      CITY PROJECT NO. 2010-027 (J6606)

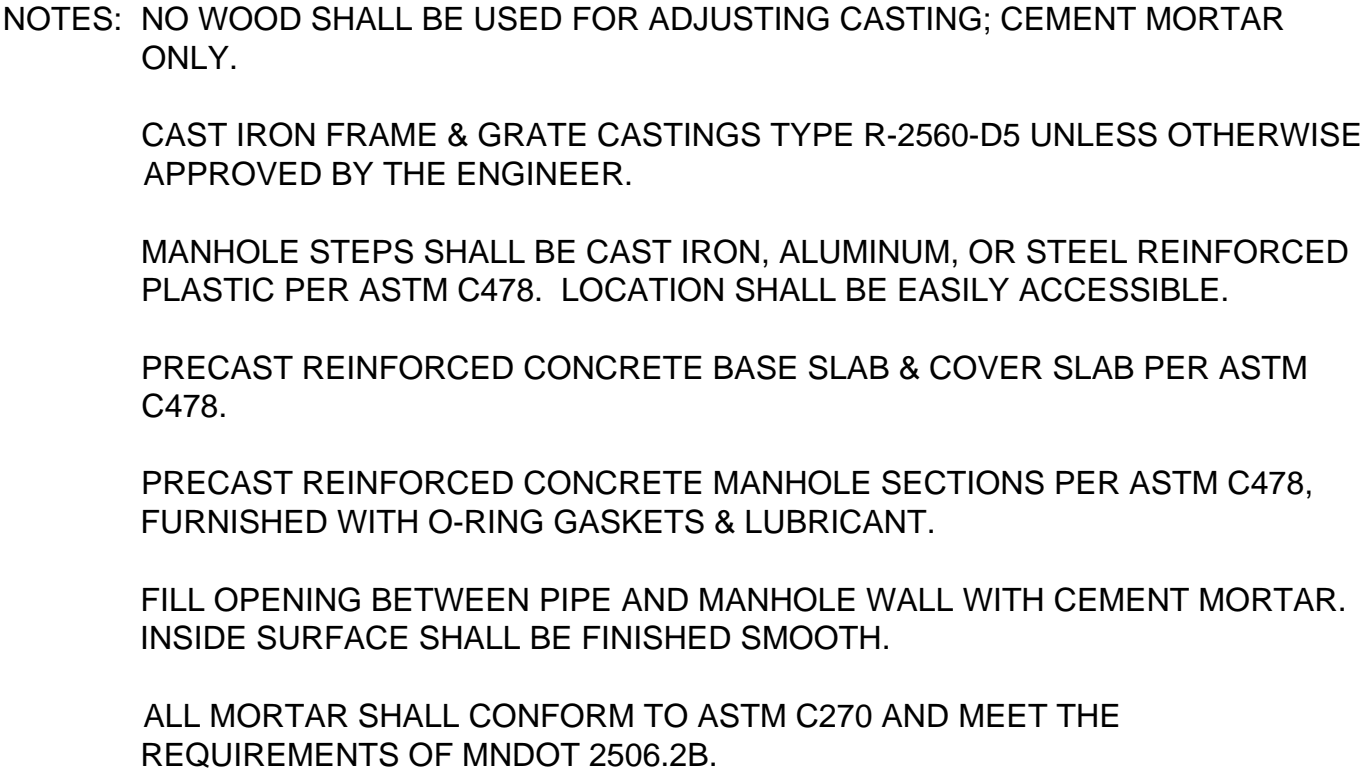
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SHEET 02 OF 09 SHEETS

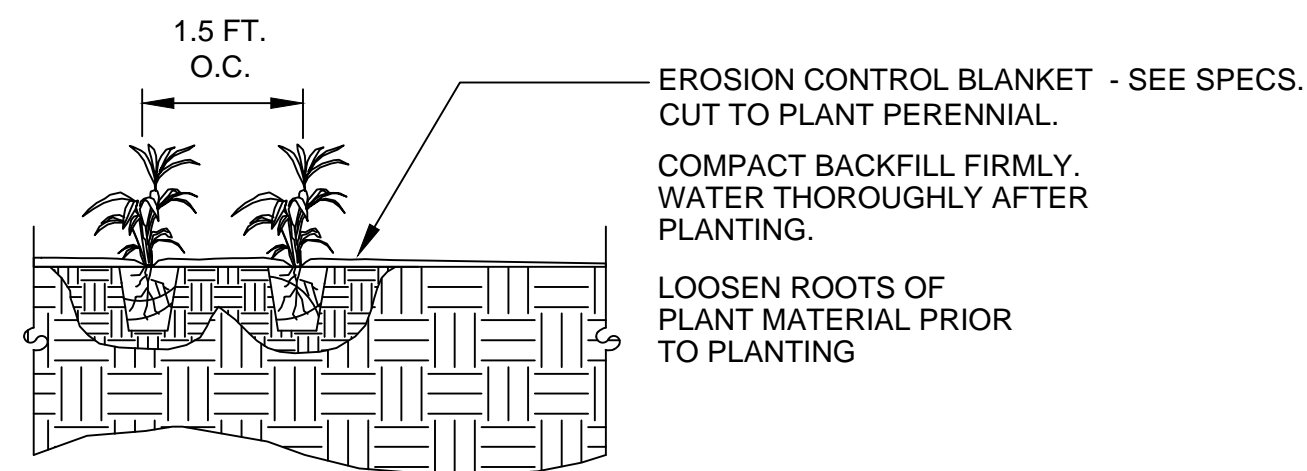




**DS SPECIAL 1**  
(NO SCALE)




DS SPECIAL 2  
(NO SCALE)



# PERENNIAL PLANTING

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WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND  
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\_\_\_\_\_  
GREGORY D. BRASKE  
DATE: 10-30-2016 LICENSE # 43873

SUBMISSION DATE: 10-30-2013	
DESIGN BY GG	DRAWN BY JRH
EOR PROJECT NO. 00214-0005	



CITY OF ROCHESTER  
201 4TH STREET S. E.  
ROCHESTER, MN

TETON COURT POND REHAB  
ROCHESTER, OLMSTEAD COUNTY,  
MINNESOTA

## STRUCTURE DETAILS

SHEET 03 OF 09 SHEETS

STATE PROJECT NO. ---	CITY PROJECT NO. 2010-027 (J6606)
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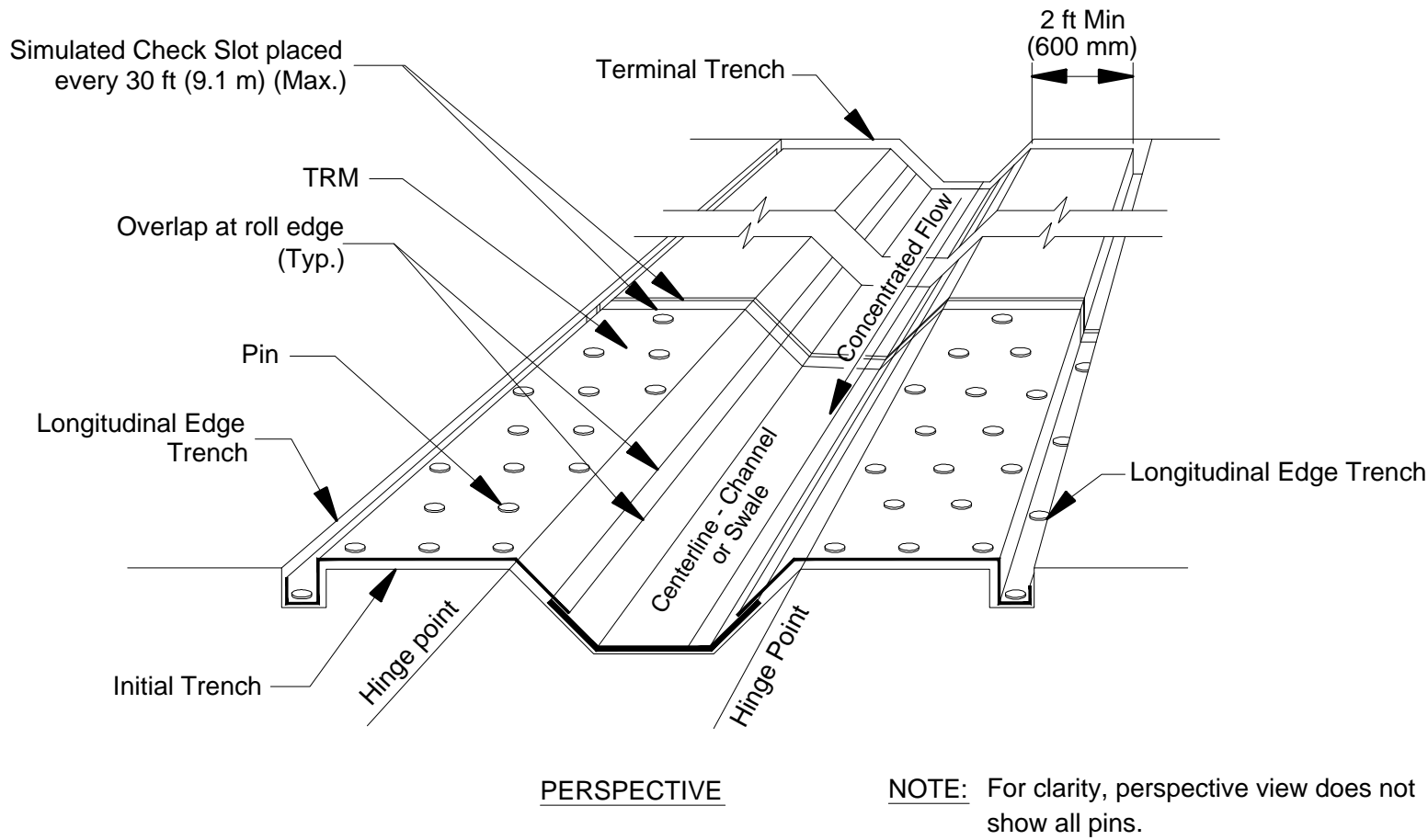


FIGURE 1: OVERVIEW OF  
TRM IN CHANNEL

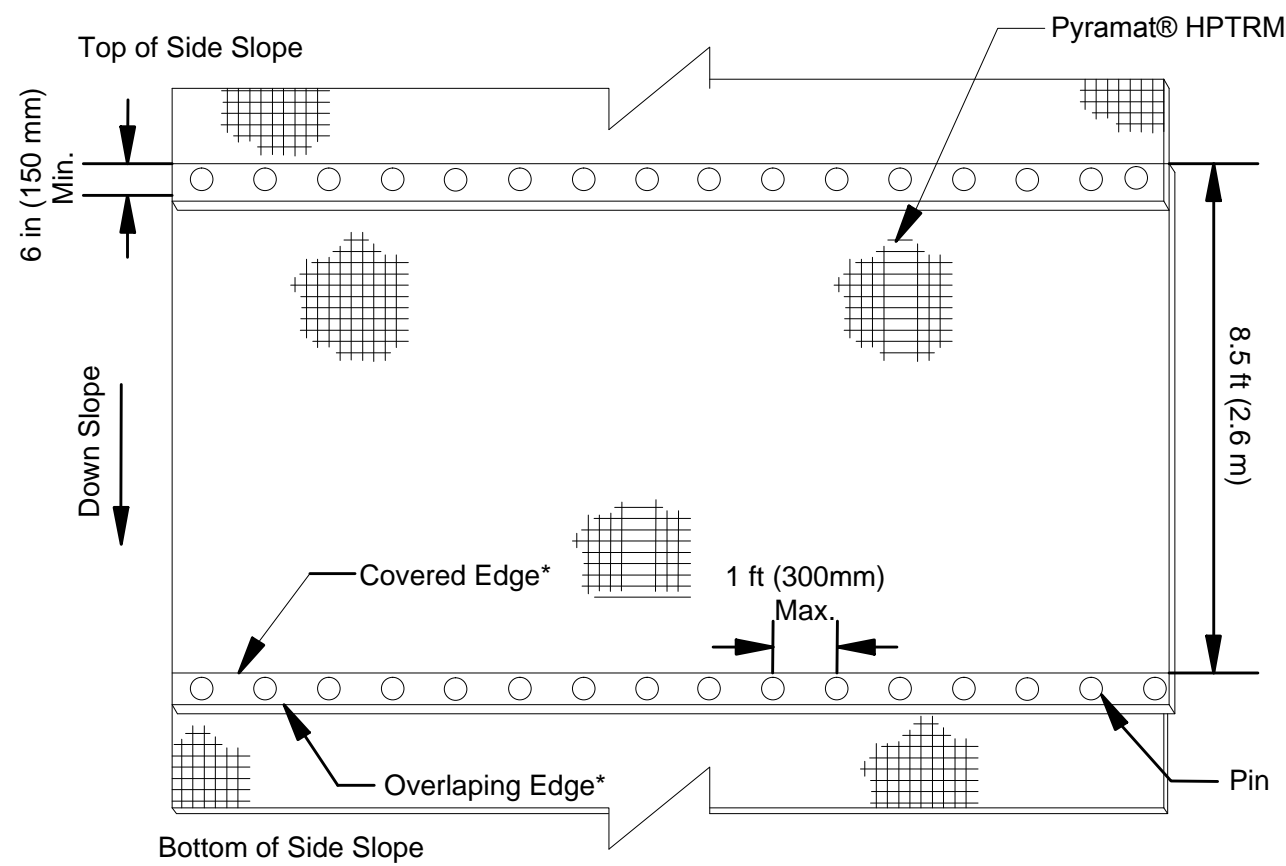


FIGURE 4:  
OVERLAP AT ROLL EDGE DETAIL

\*Note: TRM Edge Shingle/Overlap placement depends on down slope direction  
(i.e Shingle in the direction of the down slope)

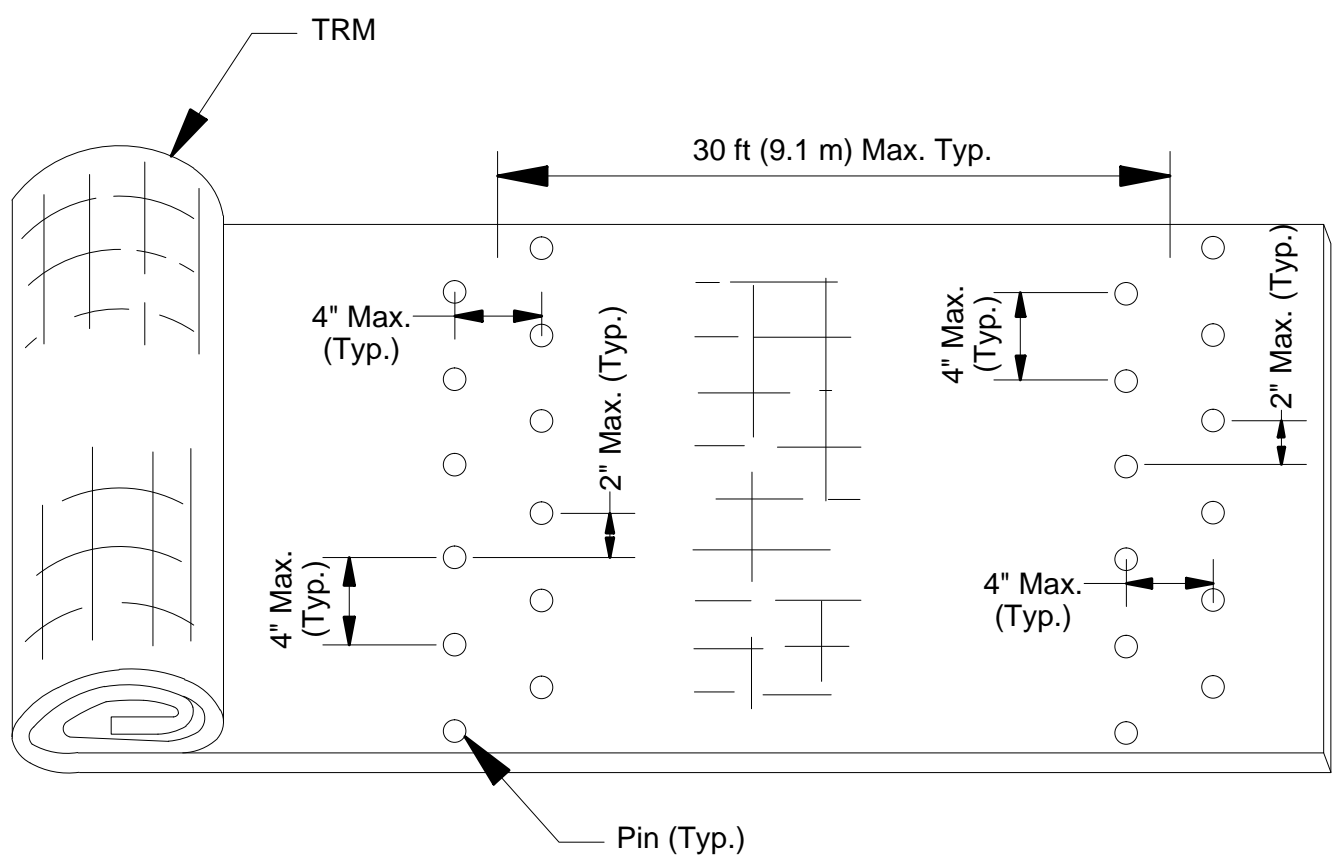


FIGURE 7: SIMULATED CHECK SLOT DETAIL

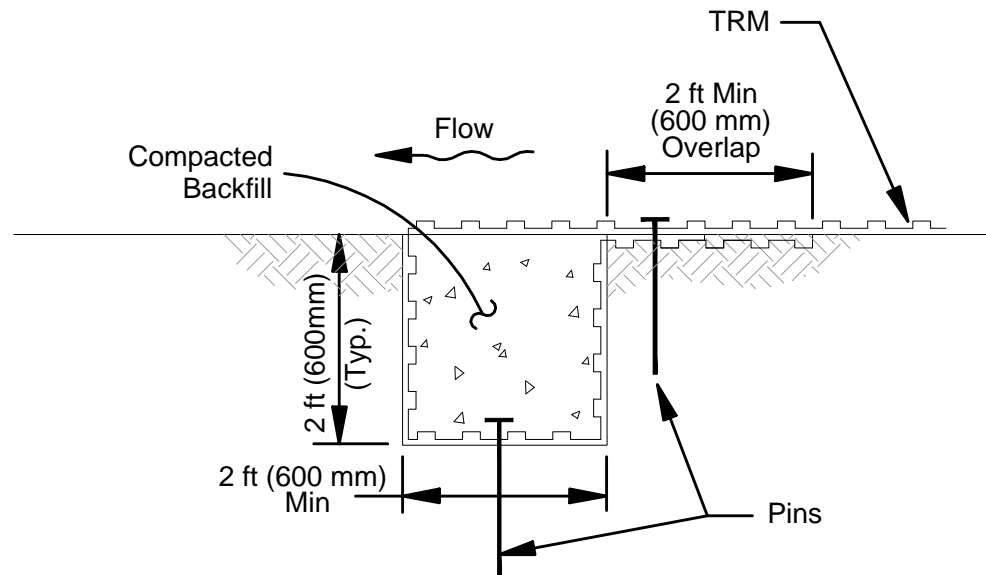


FIGURE 2: INITIAL TRENCH  
(DOWNSTREAM) DETAIL

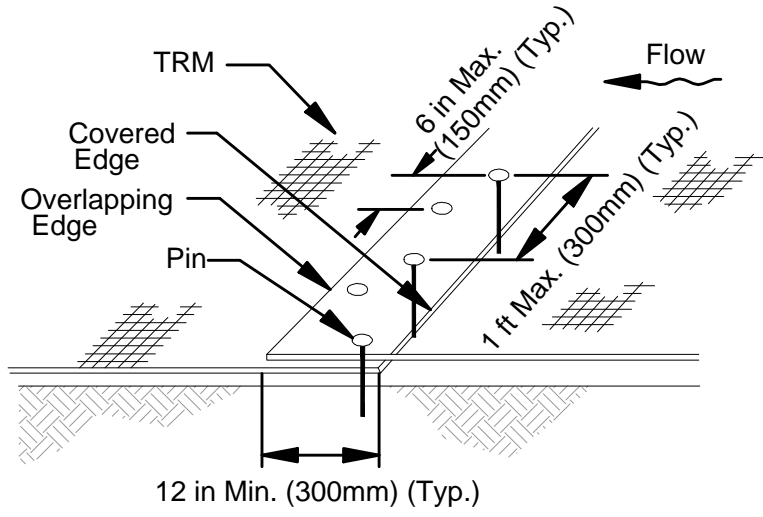


FIGURE 5: TRM  
OVERLAP AT ROLL END DETAIL

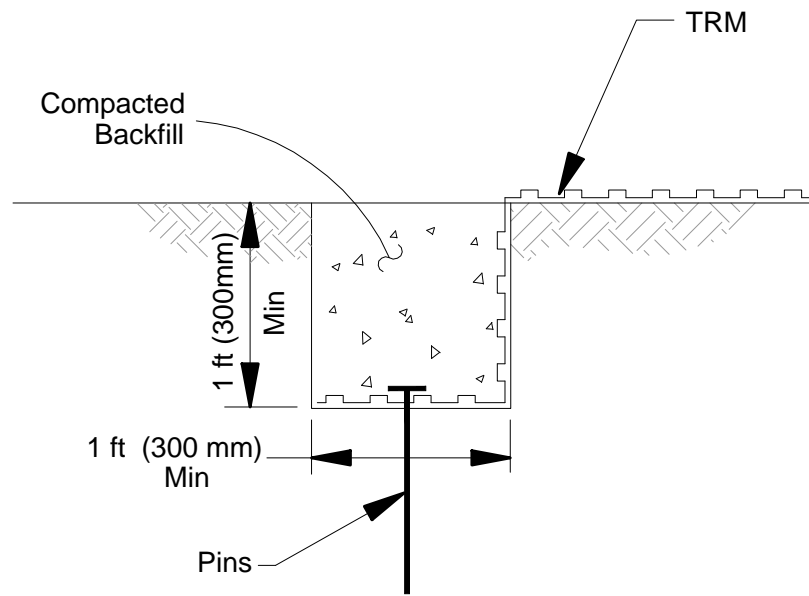


FIGURE 3: LONGITUDINAL EDGE TRENCH DETAIL

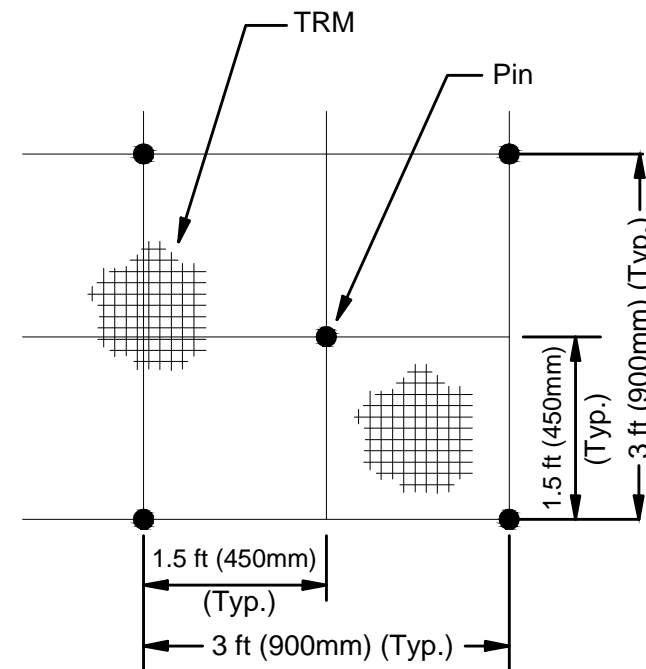


FIGURE 6: PIN PATTERN DETAIL

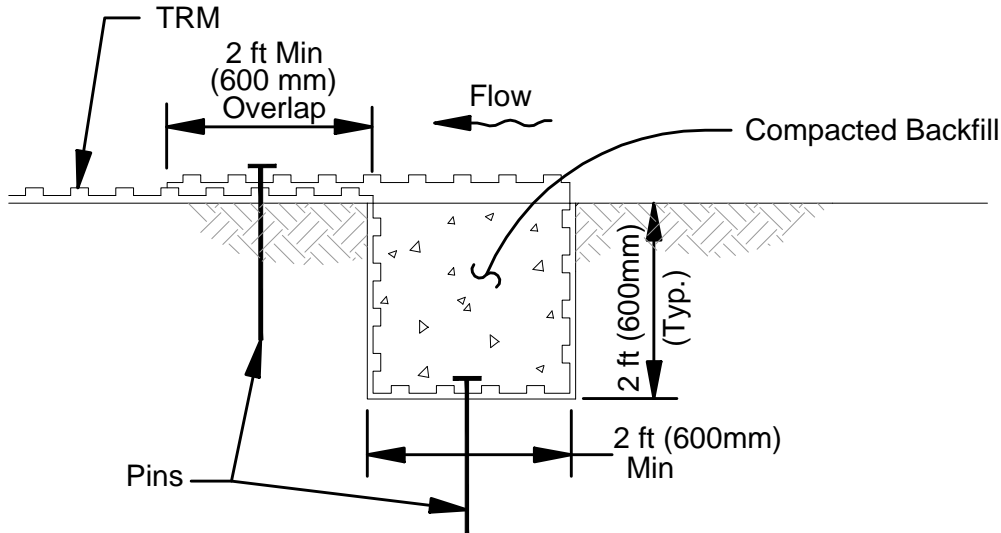


FIGURE 8: TERMINAL TRENCH  
(UPSTREAM) DETAIL

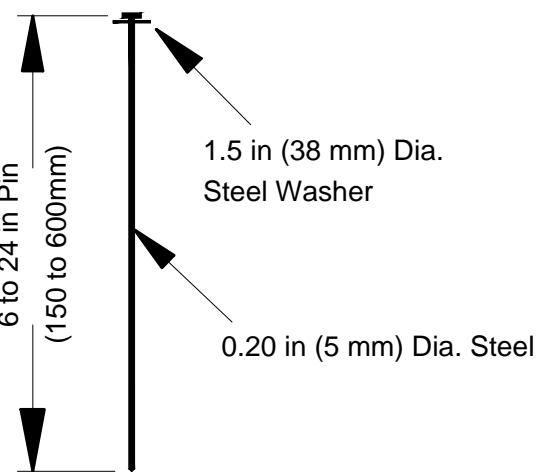


FIGURE 9: PIN DETAIL

## TRM IN SWALE PRE-CONSTRUCTION

- A pre-construction meeting should be held with the construction team. This meeting shall be scheduled by the contractor with at least two weeks notice.

## SITE PREPARATION

- Grade and compact area of TRM installation as directed and approved by Engineer. Subgrade shall be uniform and smooth. Remove all rocks, clods, vegetation or other objects so the installed mat will have direct contact with soil surface.
- Prepare seedbed by loosening the top 2-3 in (50-75 mm) minimum of soil.
- Do not mulch areas where mat is to be placed.

## SEEDING

- Apply 25% of specified seed to soil surface with type 6 hydraulic soil stabilizer before installing mat. Disturbed areas shall be reseeded.
- Consult project plans and/or specifications for seed types and application rates.

## INSTALLATION IN STORM WATER CHANNELS

- Figure 1 shows general installation layout and details for TRM in storm water swales.
- Excavate an initial trench 24 in wide x 24 in deep (600 x 600 mm) minimum across the channel at downstream end of project (see Figure 2). Deeper initial trench and/or hard armoring may be required in channels that have the potential for scour.
- Excavate a longitudinal edge trench 12 in wide x 12 in deep (300 x 300 mm) minimum along both sides of the installation to bury edges of mat (see Figure 3). The trench shall be located 24 in (600 mm) minimum over crest of slope.
- Beginning at the centerline of the channel, place roll end into the initial trench (with 24 in (600 mm) minimum lap) and secure with pinning devices on 12 in (300 mm) centers (see Figure 2). Position adjacent rolls and secure in trench in same manner. Backfill and compact soil into trench as directed and approved by Engineer.
- Unroll mat in the upstream direction over the compacted trench.
- Secure initial trench lap with pinning devices on 12 in (300 mm) centers (see Figure 2).
- Secure longitudinal edge trench with pinning devices on 12 in (300 mm) centers (see Figure 3).
- Continue installation as described above, overlapping adjacent rolls as follows:
  - A. Roll edge overlap: 6 in (150 mm) minimum overlap with upslope mat on top. Secure with one row of ground pinning devices on 12 in (300 mm) centers (see Figure 4).
  - B. Roll end overlap: 12 in (300 mm) minimum overlap with upstream mat on top. Secure with two rows of ground pinning devices staggered 12 in (300 mm) apart on 12 in (300 mm) centers (see Figure 5).
- Secure mat using suggested ground pinning devices for appropriate frequency and pattern shown on the Pin Pattern Guide (see Figure 6).
- For channel reaches longer than 45 ft (13.7 m), install simulated check slots per Figure 7. This method includes placing two staggered rows of pins on 4 in (100 mm) centers at 30 ft (9.1 m) intervals (see Figure 7) or across the midpoint of the channel for channel lengths less than 60 ft (18.2 m).
- Excavate terminal trench 24 in wide x 24 in deep (600 x 600 mm) minimum across the channel at the upstream end of the project (see Figure 8). Deeper terminal trench and/or hard armoring may be required in channels that have the potential for scour.
- Pin, backfill and compact upstream end of mat in terminal trench (see Figure 8). Terminal trench pinning devices should be spaced on 12 in (300 mm) centers (see Figure 8). Unroll mat in downstream direction over compacted trench with a minimum 24 in (600 mm) lap. Secure lap with pinning devices on 12 in (300 mm) centers.

## GROUND PINNING DEVICES

- Metal pins should be at least 0.20 in (5 mm) diameter steel with a 1 1/2 in (38 mm) steel washer at the head of the pin (see Figure 9). Metal pins should be driven flush to the soil surface. Pins should be between 6-24 in (150-600 mm) long and have sufficient ground penetration to resist pullout. Longer pins may be required for looser soils. Heavier metal stakes may be required in rocky soils. Depending on soil pH and design life of the pin, galvanized or stainless steel pins may be required. Consult project plans and/or specifications for tie down device details.

## SOIL FILLING

- Installed TRM shall be re-seeded with remaining 75% seed and type 8 hydraulic soil stabilizer.
- If equipment must operate on the mat, make sure it is of the rubber-tired type. No tracked equipment or sharp turns are allowed on the mat.
- Avoid any traffic over the mat if loose or wet soil conditions exist.
- Irrigate as necessary to establish/maintain vegetation. Do not over irrigate.

## TURF REINFORCEMENT MAT DETAILS AND NOTES (TYP.)

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GREGORY D. BRASKE  
DATE: 10-30-2013

LICENSE # 43873

SUBMISSION DATE:  
10-30-2013

DESIGN BY  
GG

DRAWN BY  
JRH

EOE PROJECT NO.  
00214-0005



**Emmons & Olivier  
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651 Hale Avenue North  
Oakdale, MN 55128  
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www.eorinc.com

**CITY OF ROCHESTER**  
201 4TH STREET S. E.  
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**TETON COURT POND REHAB.**  
**ROCHESTER, OLMSTEAD COUNTY,  
MINNESOTA**

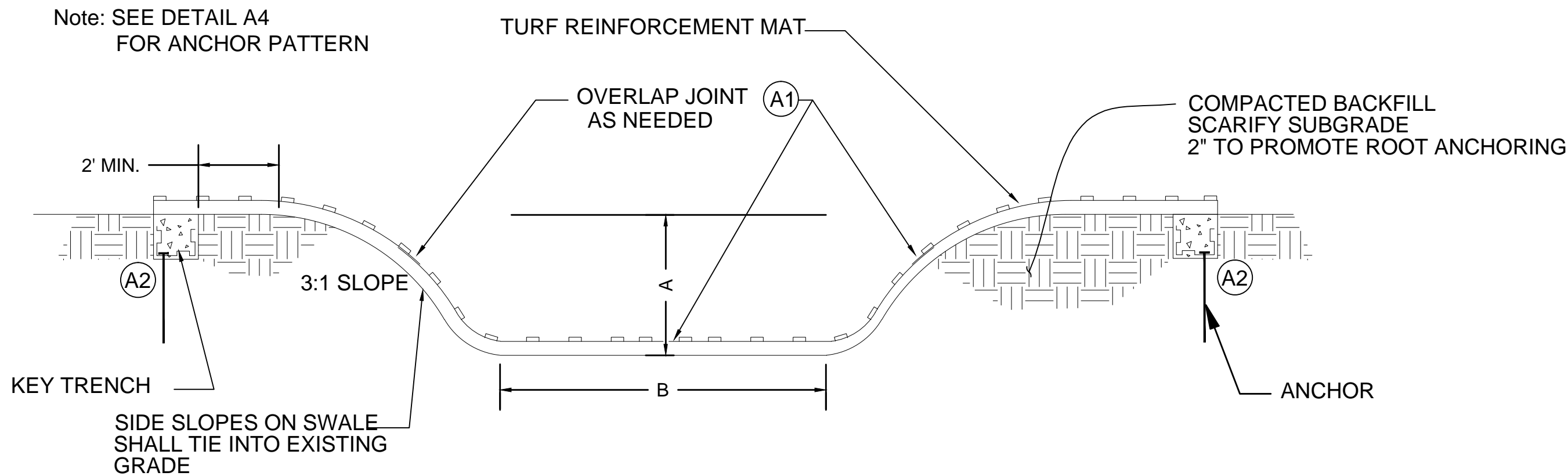
STATE PROJECT NO. ---

CITY PROJECT NO. 2010-027 (J6606)

TRM DETAILS

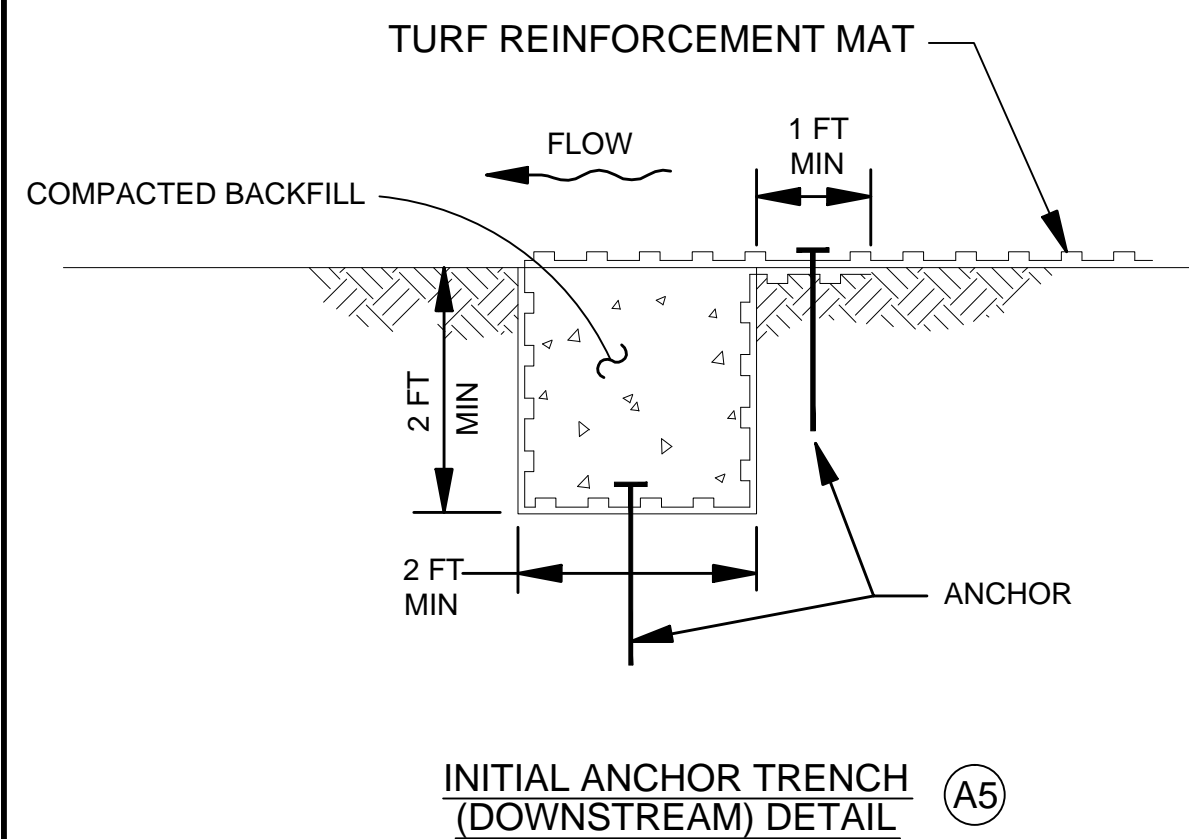
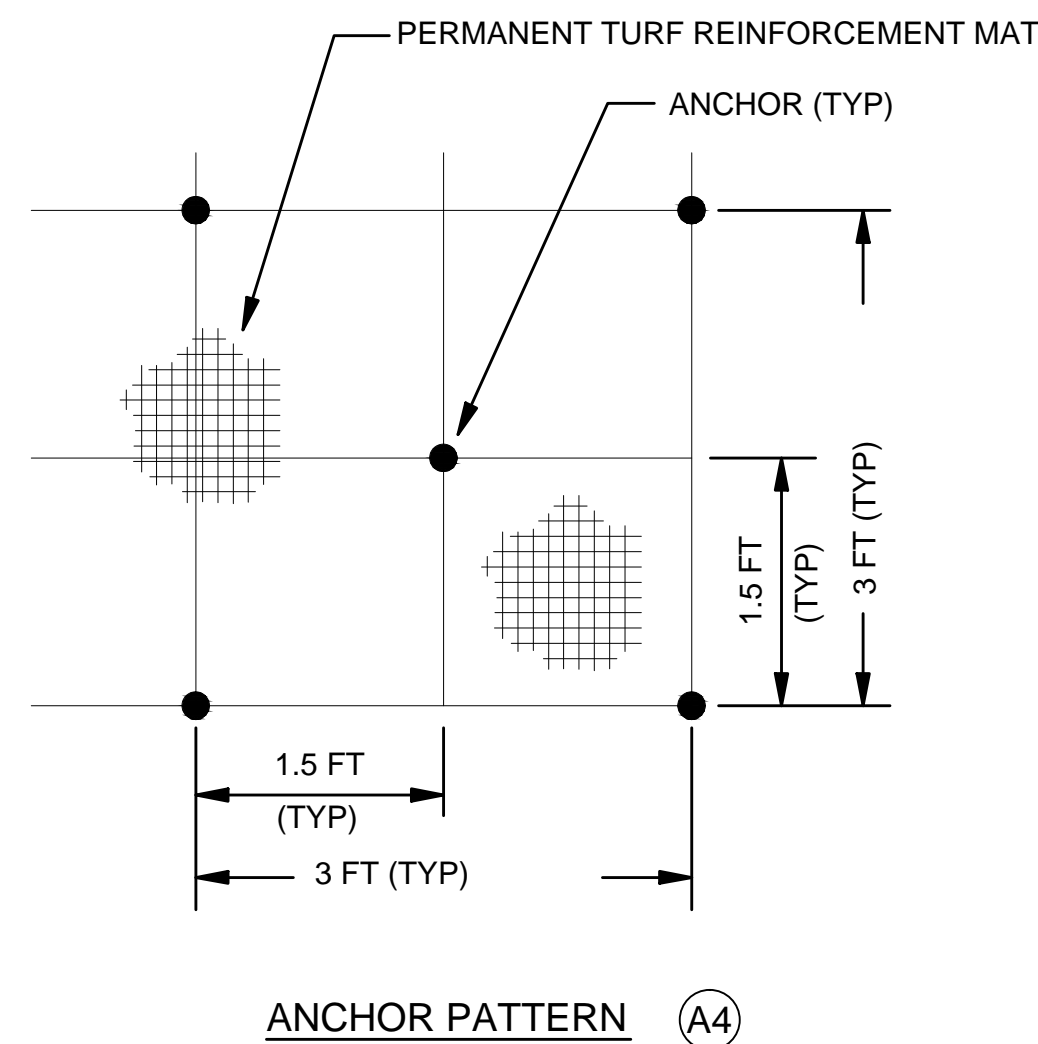
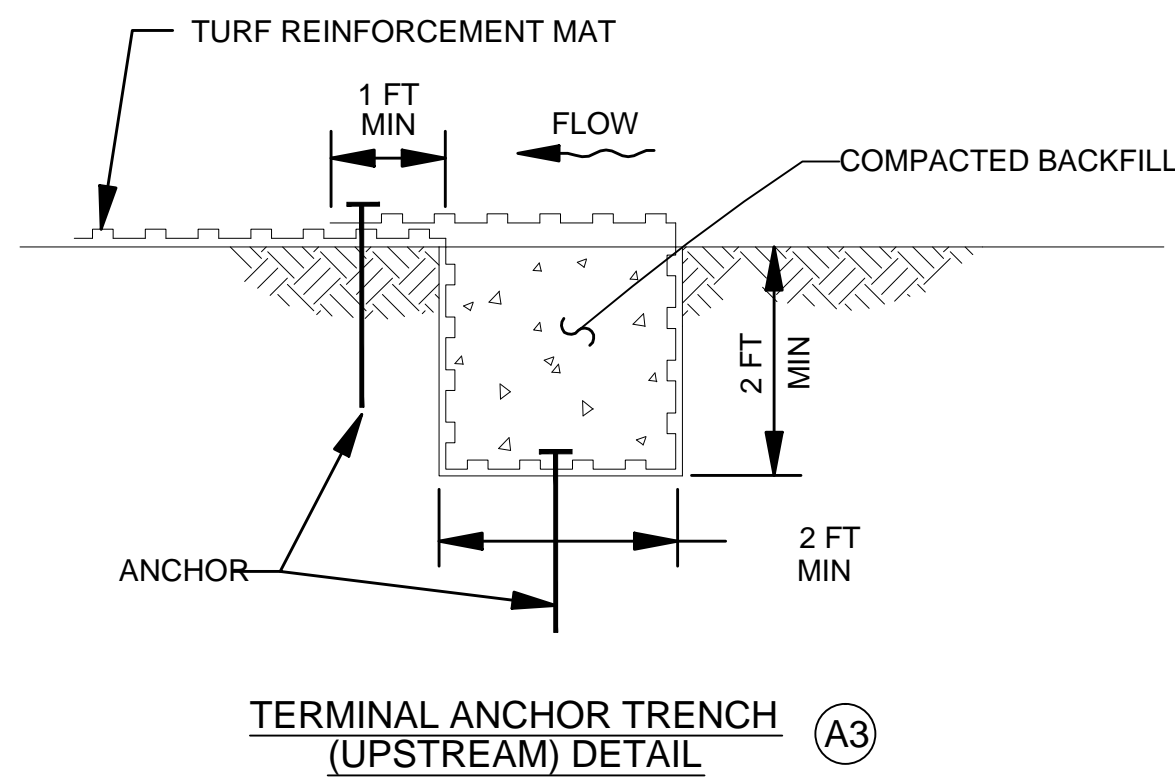
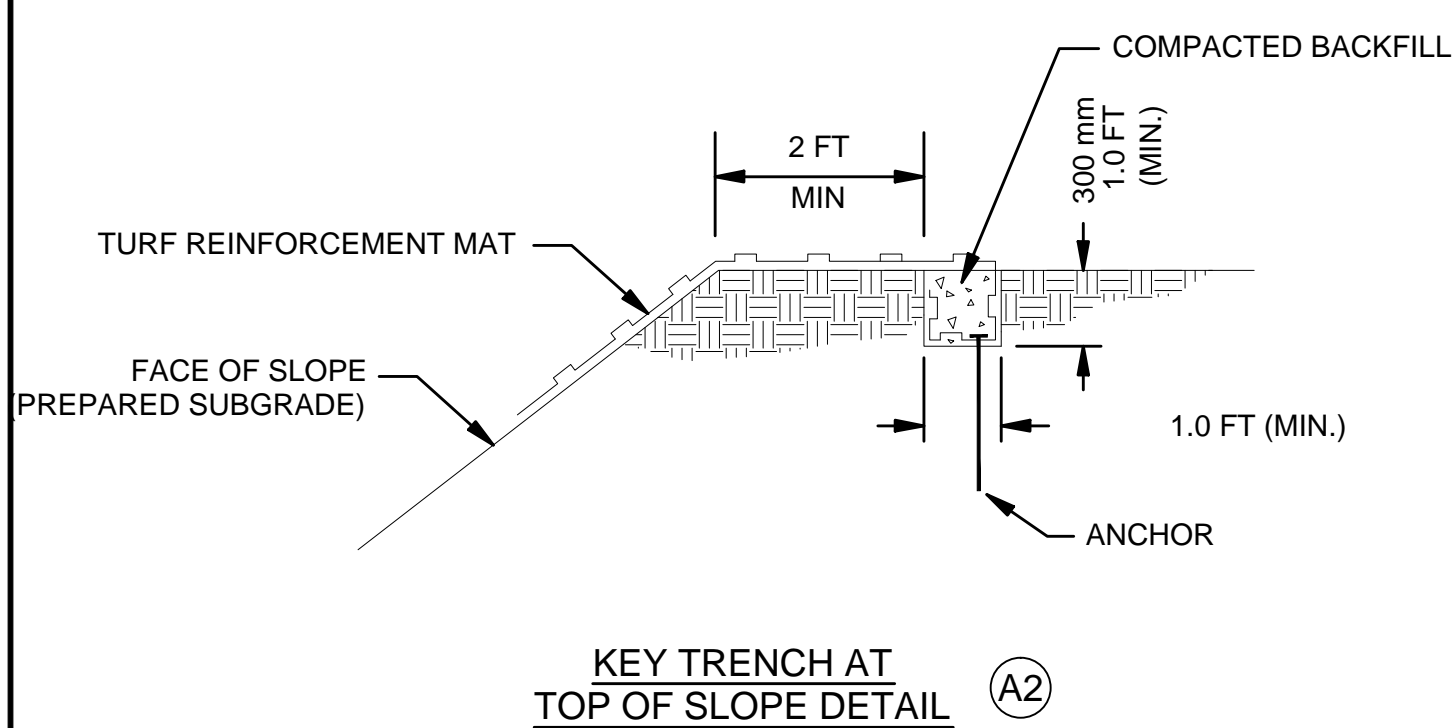
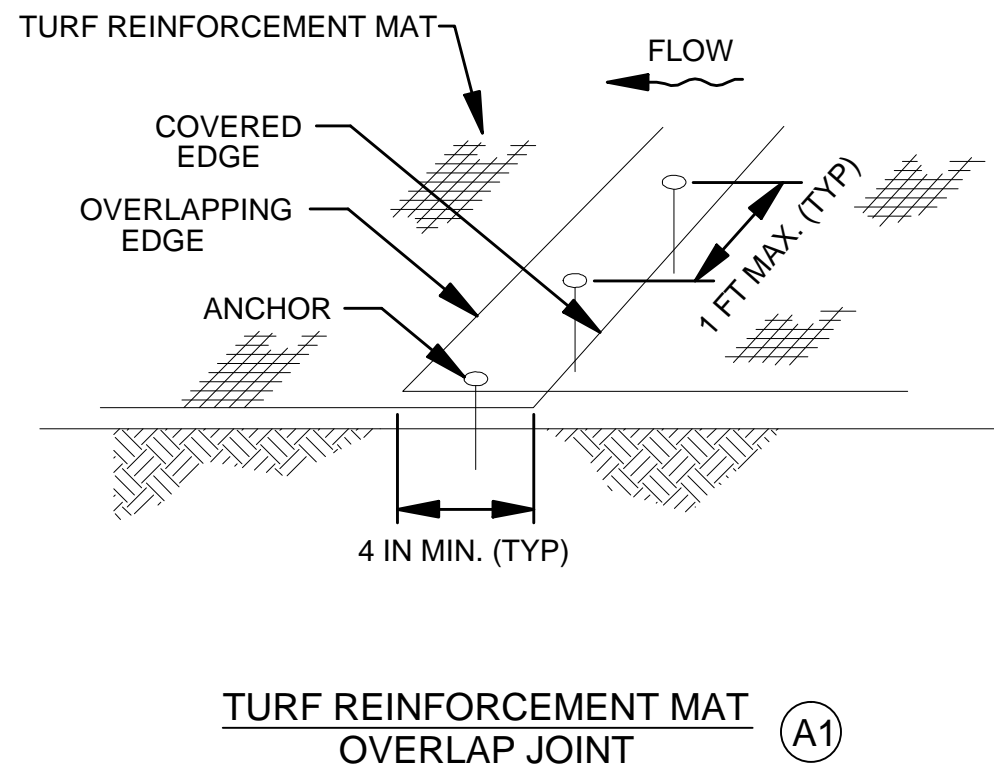
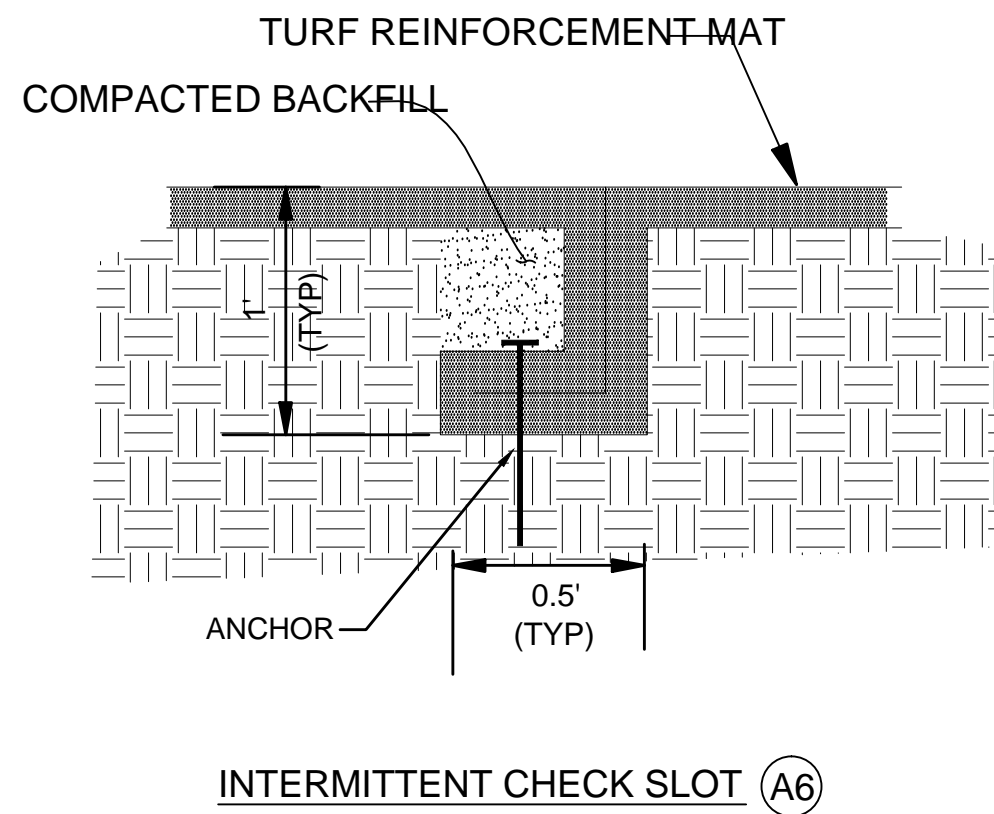
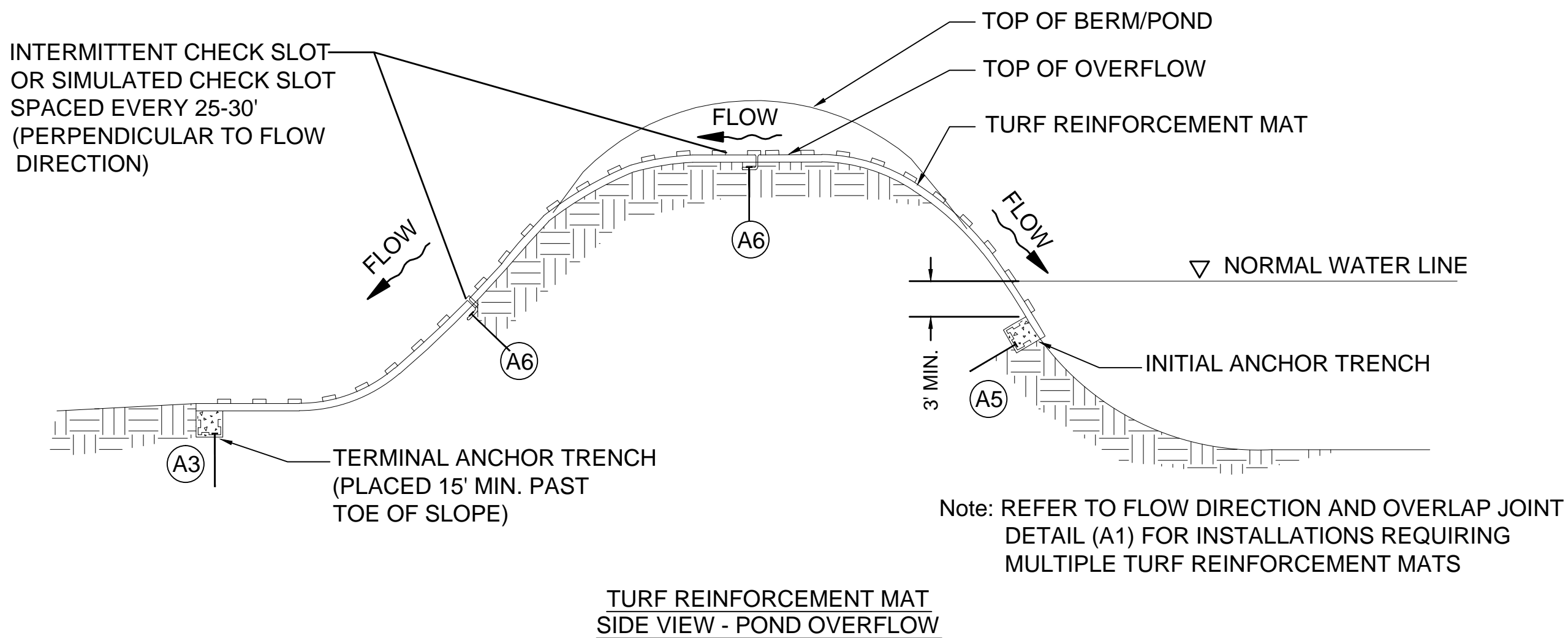
SHEET 04 OF 09 SHEETS





		Description	Ft.
UPPER POND 1c	A	Overflow Depth	1.2 FT
	B	Overflow Width	20 FT
LOWER POND 1b	A	Overflow Depth	1.2 FT
	B	Overflow Width	20 FT
OUTLET SWALE	A	Depth	VARIES 1 FT. MIN.
	B	Width	8 FT

TURF REINFORCEMENT MAT  
SECTION VIEW - TOP OF POND OVERFLOW



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DRAWN BY: JRH

EOR PROJECT NO.  
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**EOR** Emmons & Olivier  
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CITY OF ROCHESTER  
201 4TH STREET S. E.  
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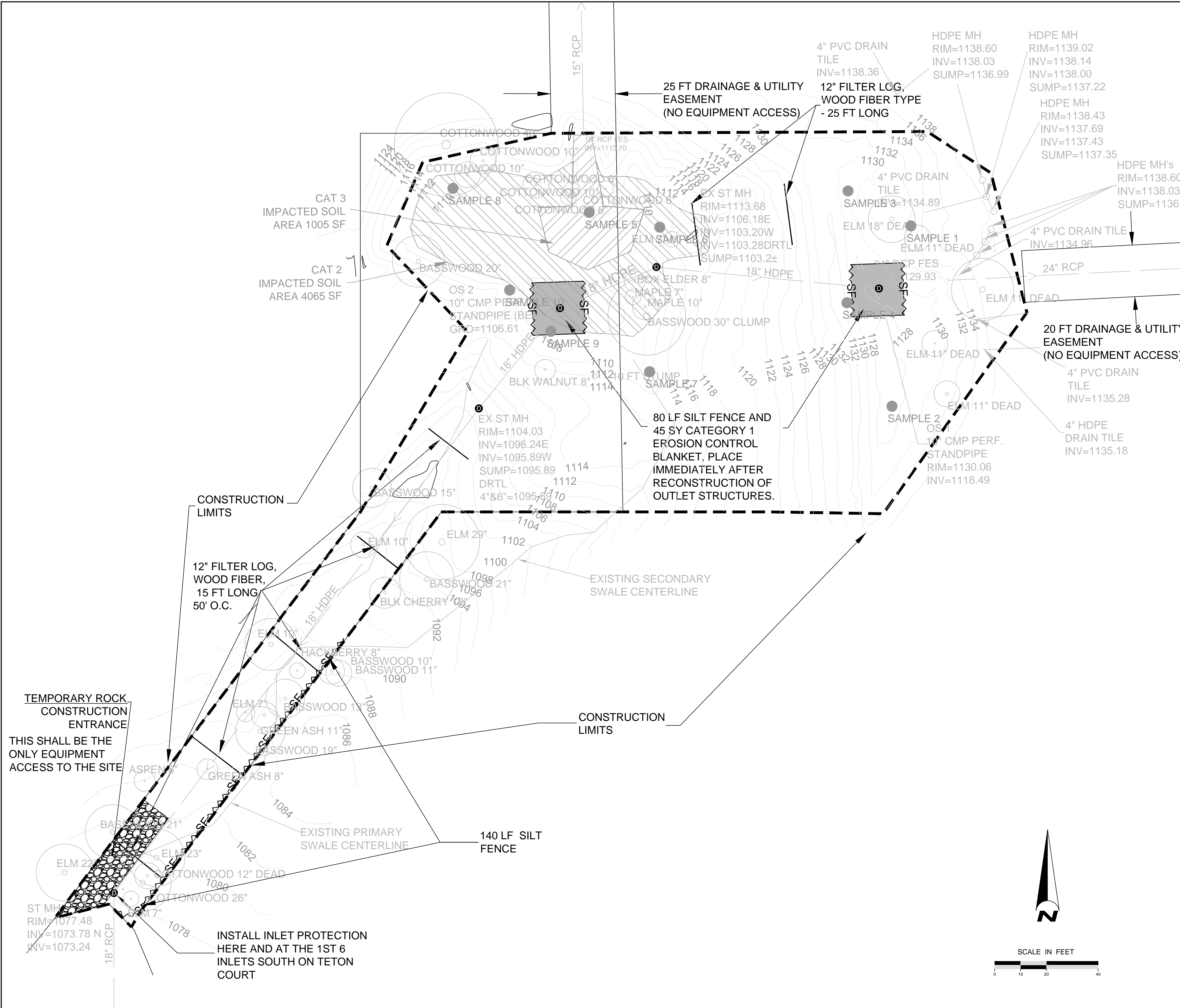
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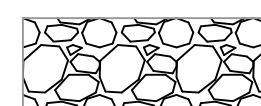
OVERFLOW DETAILS

SHEET 05 OF 09 SHEETS



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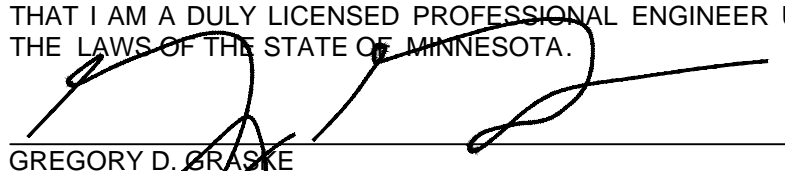


-  SILT FENCE
-  CATEGORY 1 EROSION CONTROL BLANKET
-  TEMPORARY ROCK CONSTRUCTION ENTRANCE

- EROSION CONTROL NOTES:
1. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EROSION CONTROL AS OUTLINED ON THESE PLANS AND IN THE STORM-WATER POLLUTION PREVENTION PLAN.
  2. THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES DURING CONSTRUCTION ACTIVITY.
  3. THE CONTRACTOR SHALL INSTALL INLET PROTECT DEVICES AND SILT FENCE AT LOCATIONS INDICATED ON THE PLANS PRIOR TO BEGINNING ANY OTHER CONSTRUCTION ACTIVITIES AND MAINTAIN SUCH INSTALLATIONS UNTIL FINAL STABILIZATION IS COMPLETED.
  4. DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS THAT IS TRACKED ONTO OR ACCUMULATED ON ADJACENT PAVEMENTS ON A DAILY BASIS.
  5. CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION DEVICES, BIO-LOGS ANDF ALL OTHER EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS COMPLETED.
  6. A DEWATERING PLAN SHALL BE SUBMITTED TO PROJECT ENGINEER FOR APPROVAL IF A TEMPORARY SEDIMENT BASIN IS NEEDED.
  7. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE.
  8. ALL REMAINING TREES NOT IDENTIFIED FOR REMOVAL SHALL BE PROTECTED PER MNDOT SPEC 2572.3.
  9. CONTRACTOR SHALL INSTALL AND MAINTAIN WOOD FIBER BIO-LOGS AS INDICATED, REMOVING THEM TO THE SIDE DURING SITE WORK AND REINSTALLING THEM AT THE CESSATION OF WORK EACH DAY.
  10. ALL SLOPES SHALL BE CAT TRACKED AT THE END OF EACH WORKING DAY UNTIL PERMANENT EROSION CONTROL IS INSTALLED.

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**ROCHESTER, OLMSTEAD COUNTY,  
MINNESOTA**

STATE PROJECT NO. ---      CITY PROJECT NO. 2010-027 (J6606)

**TEMPORARY EROSION CONTROL**

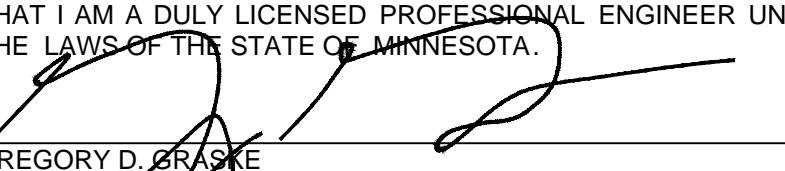
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NO	DATE	BY	REVISION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

  
GREGORY D. BRASKE  
DATE: 10-30-2013

LICENSE # 43873

SUBMISSION DATE:  
10-30-2013

DESIGN BY: GG      DRAWN BY: JRH

GOR PROJECT NO.  
00214-0005



**Emmons & Olivier  
Resources, Inc.**  
651 Hale Avenue North  
Oakdale, MN 55128  
Tele: 651.770.8448  
www.eorinc.com

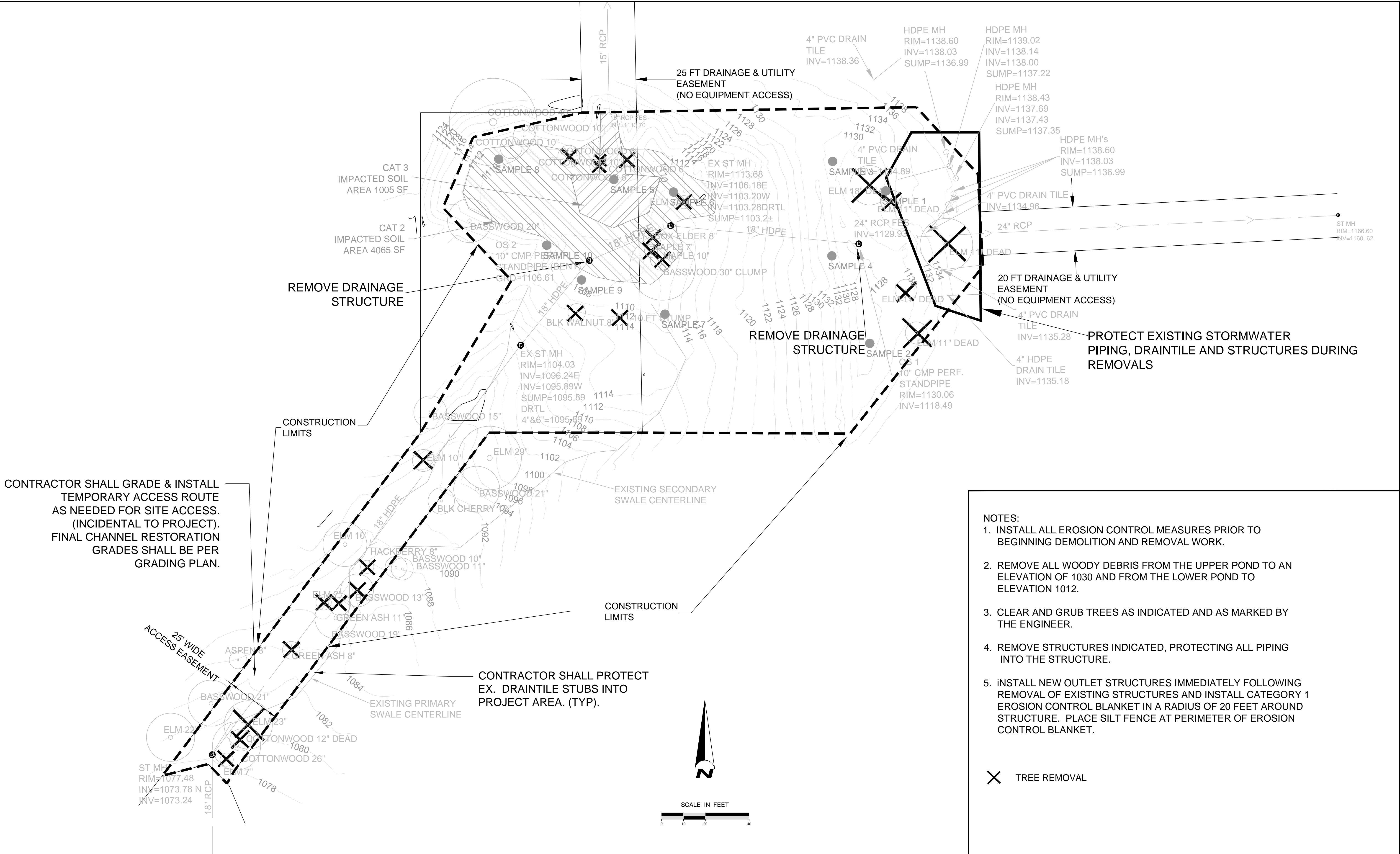
**CITY OF ROCHESTER**  
201 4TH STREET S. E.  
ROCHESTER, MN

**TETON COURT POND REHAB**  
**ROCHESTER, OLMSTEAD COUNTY,  
MINNESOTA**

STATE PROJECT NO. ---      CITY PROJECT NO. 2010-027 (J6606)

REMOVALS

SHEET 07 OF 09 SHEETS

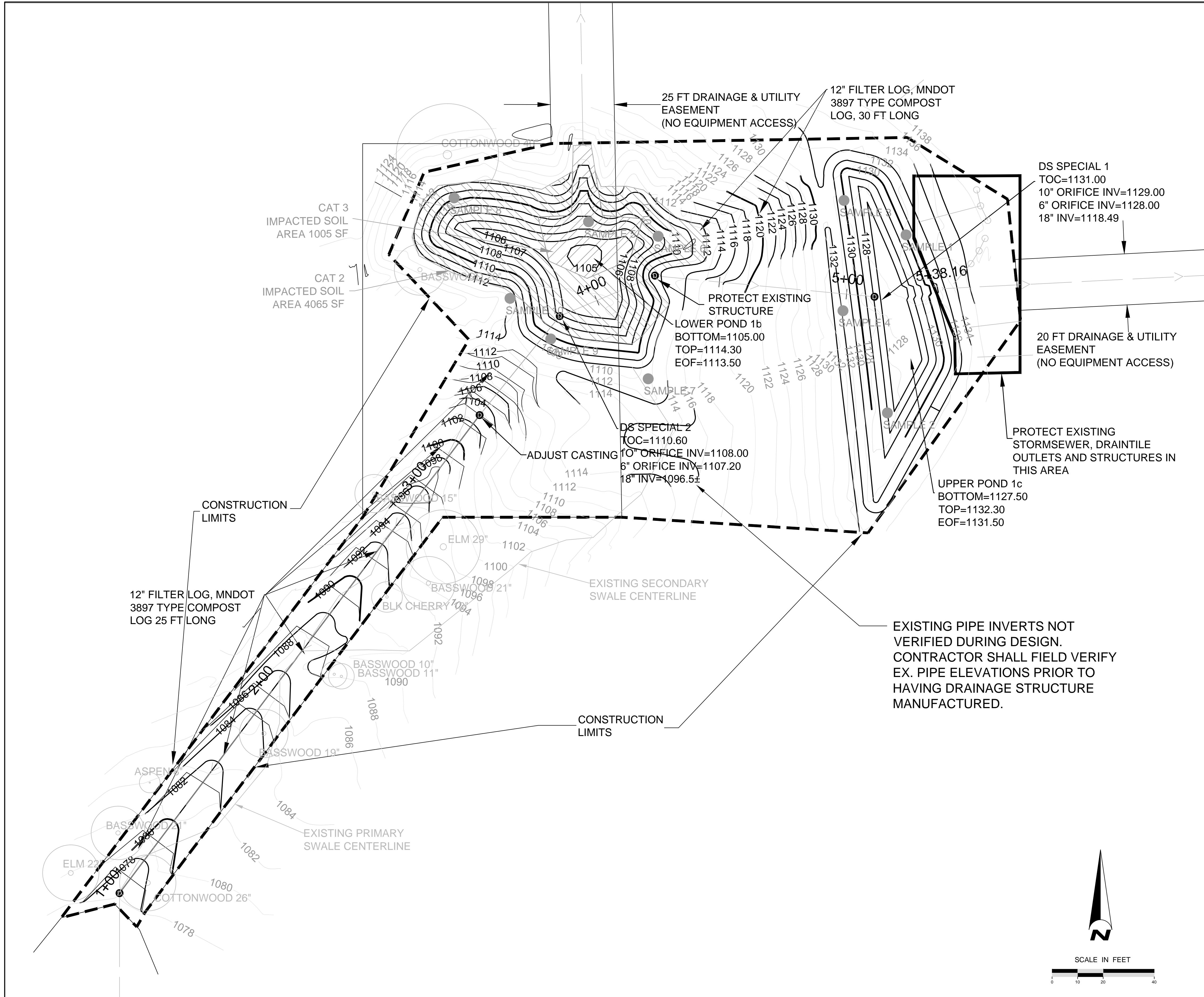


- NOTES:**
1. INSTALL ALL EROSION CONTROL MEASURES PRIOR TO BEGINNING DEMOLITION AND REMOVAL WORK.
  2. REMOVE ALL WOODY DEBRIS FROM THE UPPER POND TO AN ELEVATION OF 1030 AND FROM THE LOWER POND TO ELEVATION 1012.
  3. CLEAR AND GRUB TREES AS INDICATED AND AS MARKED BY THE ENGINEER.
  4. REMOVE STRUCTURES INDICATED, PROTECTING ALL PIPING INTO THE STRUCTURE.
  5. INSTALL NEW OUTLET STRUCTURES IMMEDIATELY FOLLOWING REMOVAL OF EXISTING STRUCTURES AND INSTALL CATEGORY 1 EROSION CONTROL BLANKET IN A RADIUS OF 20 FEET AROUND STRUCTURE. PLACE SILT FENCE AT PERIMETER OF EROSION CONTROL BLANKET.

✕ TREE REMOVAL



Plot Date: 11/05/2013  
Drawing name: X:\Clients\_Municipal\00214\_Rochester\0005\_Teton\_Court\_Pond\_Rehab\09\_GIMS\_ProjectName.dwg  
Xref: X:BASE



- NOTES:
1. ALL CONTAMINATED GRADED MATERIAL IN POND AREAS SHALL BE DISPOSED OF OFF SITE AT AN APPROVED LANDFILL IN ACCORDANCE WITH MPCA RULES AND REGULATIONS.
  2. CONTRACTOR SHALL COORDINATE GRADING WITH APPLICATION OF PERMANENT EROSION CONTROL TO MINIMIZE TIME SOILS ARE EXPOSED. THIS MAY REQUIRE MULTIPLE MOBILIZATIONS BY THE LANDSCAPING CONTRACTOR APPLYING THE PERMANENT EROSION CONTROL MEASURES.
  3. ALL SLOPES SHALL BE CAT TRACKED AT THE END OF EACH DAY.
  4. SEE SHEET 6 FOR ADDITIONAL EROSION CONTROL REQUIREMENTS DURING GRADING AND STRUCTURE INSTALLATION.
  5. CONNECTION TO AND PROTECTION OF EXISTING PIPING IS INCIDENTAL TO CONSTRUCTION OF DRAINAGE STRUCTURES.
  6. PROTECT ALL DRAINTILE OUTLETS LOCATED DURING CONSTRUCTION. REPAIR DAMAGED DRAINTILE PER ENGINEERS INSTRUCTIONS. DRAINTILE REPAIR SHALL BE INCIDENTAL TO COMMON EXCAVATION.

6			
5			
4			
3			
2			
1			
NO	DATE	BY	REVISION

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GREGORY D. BRASKE  
DATE: 10-31-2013  
LICENSE # 43873

SUBMISSION DATE:  
10-30-2013

DESIGN BY: GG  
DRAWN BY: JRH

EOR PROJECT NO.  
00214-0005

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MINNESOTA

STATE PROJECT NO. ---  
CITY PROJECT NO. 2010-027 (J6606)

GRADING & STRUCTURE PLAN

SHEET 08 OF 09 SHEETS



